

# MEDIUM-VOLTAGE SWITCHGEAR



## Product Overview

Medium-voltage switchgear is an indoor, complete set of switchgear equipment designed for use in 10-35kV power distribution systems.

It is widely applied in various scenarios, including power plants, substations, power transmission for small and medium-sized generators, and power distribution in industrial and mining enterprises.

The product supports the flexible switching and expansion of load circuits, integrating multiple fault protection functions such as overcurrent, short circuit, overvoltage, and undervoltage. Additionally, it integrates real-time operating status monitoring and remote control functionality, accurately addressing the operational requirements of unattended operation scenarios.

## Product Features

### Safe and Reliable

It adopts a mechanical interlock to eliminate misoperations; all live parts are enclosed in independent functional compartments, each equipped with a dedicated pressure relief channel. The metal shell is reliably grounded, maximizing personal safety protection.

### Strong Breaking Capacity

Through contact enhancement and temperature rise control, the circuit breaker cabinet can achieve a rated current of 4000A and reliably interrupt any fault current ranging from the load current to the rated short-circuit breaking current.

### High Interchangeability

The entire product adopts a modular design, enabling the interchangeability of different types of withdrawable units such as circuit breakers, disconnectors, fuses, and voltage transformers for easy maintenance and overhaul.

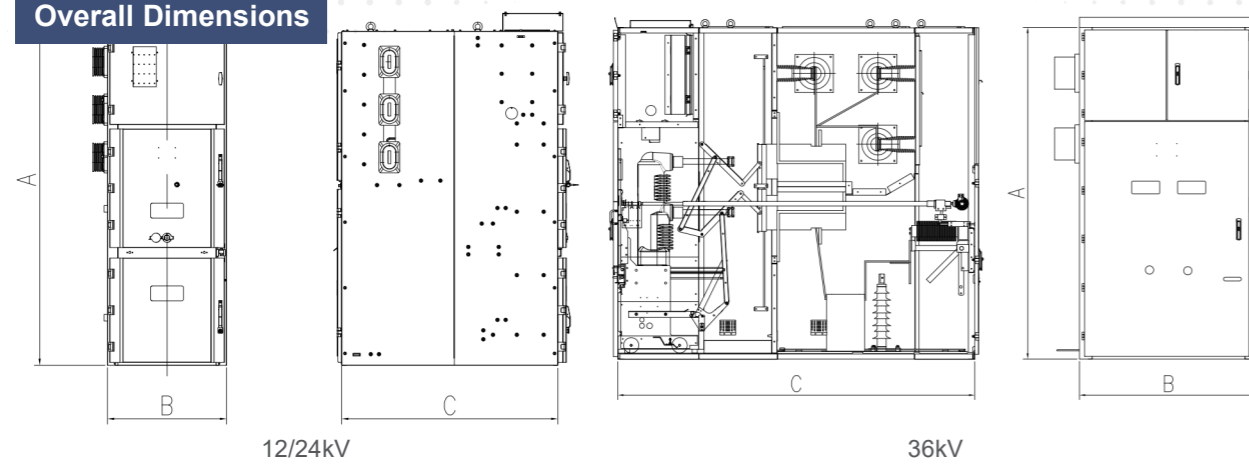
### Intelligent

Electric operating devices and relay protection devices can be provided as optional accessories, enabling the "four remote-control" functions to meet the automation control requirements of smart grids for such equipment.

## Technical Parameters

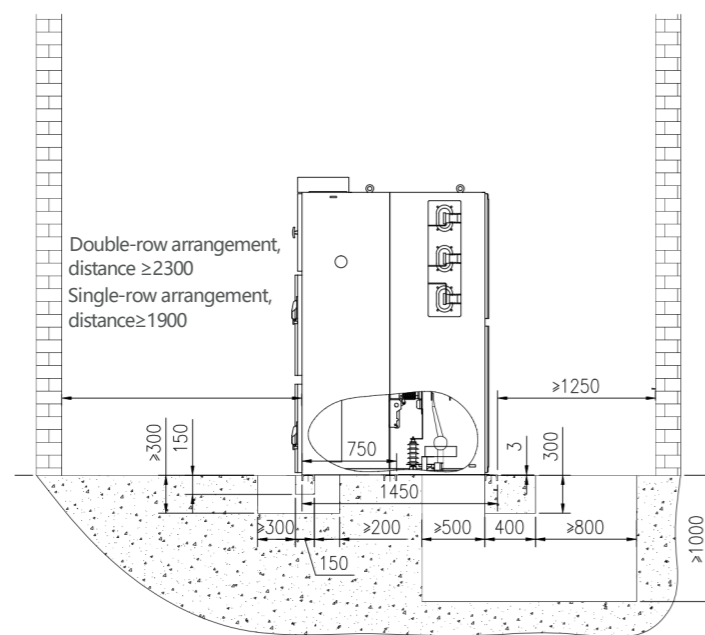
No	Item	Unit	Parameters		
1	Rated voltage	kV	12	24	36
2	Rated frequency	Hz	50		
3	Rated current	A	630,1250,2500,3150,4000		
4	1 min Power frequency withstand voltage	kV	42/48	65/79	95/118
5	Lightning impulse withstand voltage	kV	75/85	125/145	185/215
6	Rated Short-Time Withstand Current (4s)	kA	20,25,31.5,40		
7	Rated Peak Withstand Current	kA	50,63,80,100		
8	Rated Short-Circuit Making Current	kA	50,63,80,100		
9	Rated Short-Circuit Breaking Current	kA	20,25,31.5,40		
10	Mechanical Life	times	Circuit Breaker 10000; Earthing Switch 3000		

**Overall Dimensions**



Specifications	12/24kV			24kV			36kV		
	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)
630A/1250A	2360	800	1450	2380	1000	1810	2600	1400	2800
2500A/3150A/4000A	2360	1000	1750	2380	1000	1810	2600	1680	2800

**Typical Applications**



Foundation Dimensions for 12kV-1250A-31.5kA